

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:
Since many of the items lack a specific
page number, the page number displayed
online refers to the sequentially created
number each item was given upon
cataloging the materials.*

121

19126

122

[JUNE,

old books were dug up and a number of old papers and documents of interest were found. The old books were mostly in poor condition, but some were quite good.

THE HOME FARM.

OPERATIONS FOR JUNE.

The Flock.—Wash and shear sheep, allowing an interval of 8 or 10 days between the operations, so that the yolk may rise into the wool, thereby improving its quality and increasing the weight. From 3s. to 3s. 6d. per score, according to the size of the sheep, with beer, or beer-money, is about the usual rate of payment. Dip lambs a few days after shearing the ewes. Push forward barrens and wether tegs with a little cake or corn daily.

The Turnip Crop.—This will be the season for getting in the main crops in the midland and southern counties. Swedes come first, next hybrid kinds, then the yellow and white-fleshed varieties. During a dry season plough the land intended for such crops as little as possible, but clean and obtain a good tilth by a free use of scarifier, harrows, and roller, in order to retain the moisture in the soil. Heavy lands

which have been ploughed and harrowed are better worked and drilled



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1880.]

Forest Work for the Month.

121

bark being ricked in fine condition. As far as yet ascertained the price of oak bark will range rather low this season. In plantations where peeling has been carried on, collect all the spray into heaps or have it removed altogether, so as to clear the ground for the young growth to come up.

Towards the end of the month look over your plantations and see that ferns, &c., do not interfere with the growth of the small trees. This is an important item for the forester to guard against.

Besides the usual routine of repairing roads and fences, this is a good time to begin operations for protecting river-sides. Such work should always be done as early in the season as possible, so that embankments, bulwarks or such like undertakings may be consolidated before the customary floods usual in autumn. Everything in the way of water-work ought to be done during the summer months.

Ballinacourte.

D. SYM SCOTT.

CURRANT BUSHES ON RAILWAY BANKS.—In the last number of the *Flore de*
l'Amérique there is an article on the use of these waste



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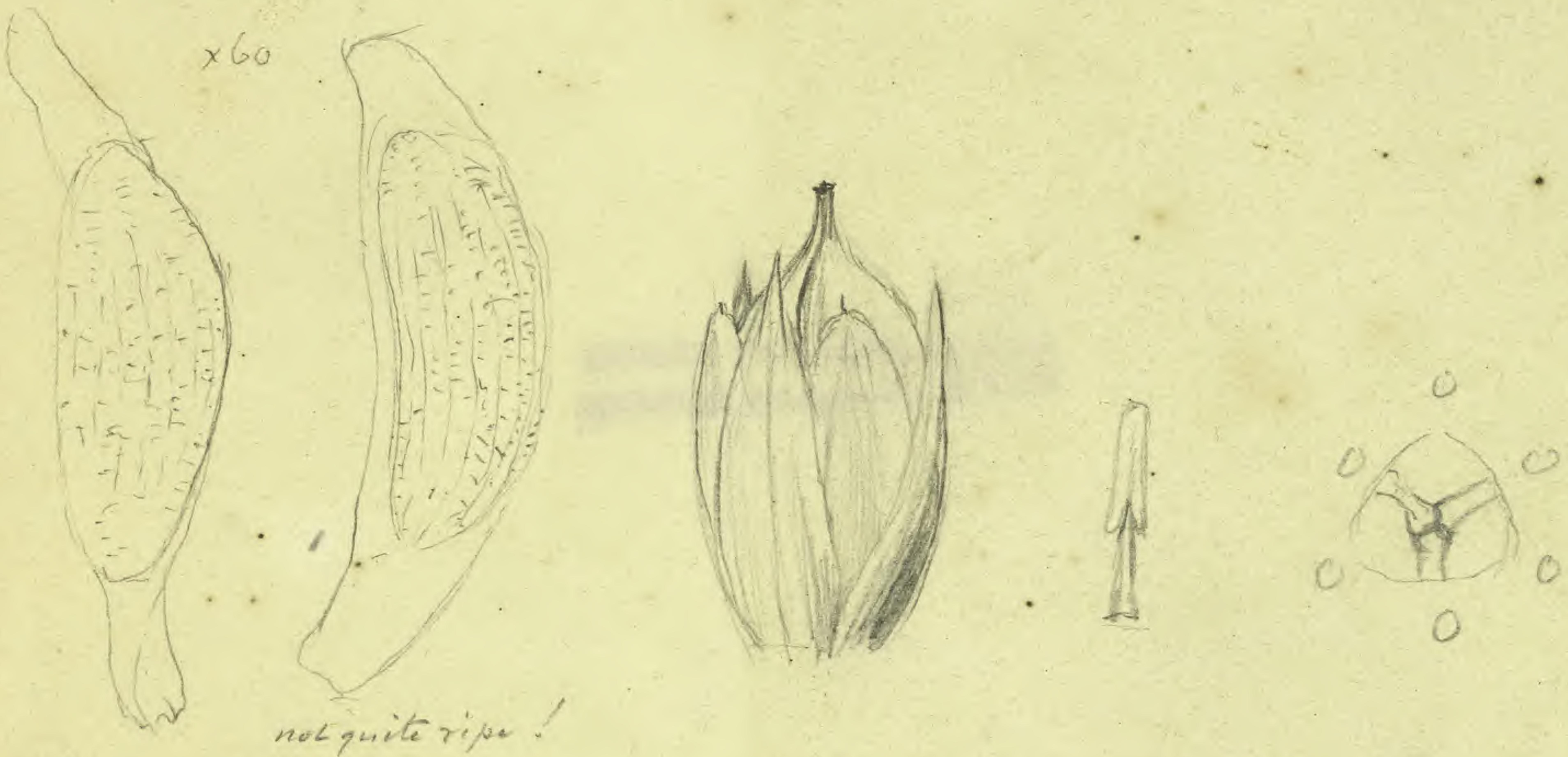
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Juncus maritimus Lam
Coney Island, Ch. H. Peck Sept 1868

March 16 1870



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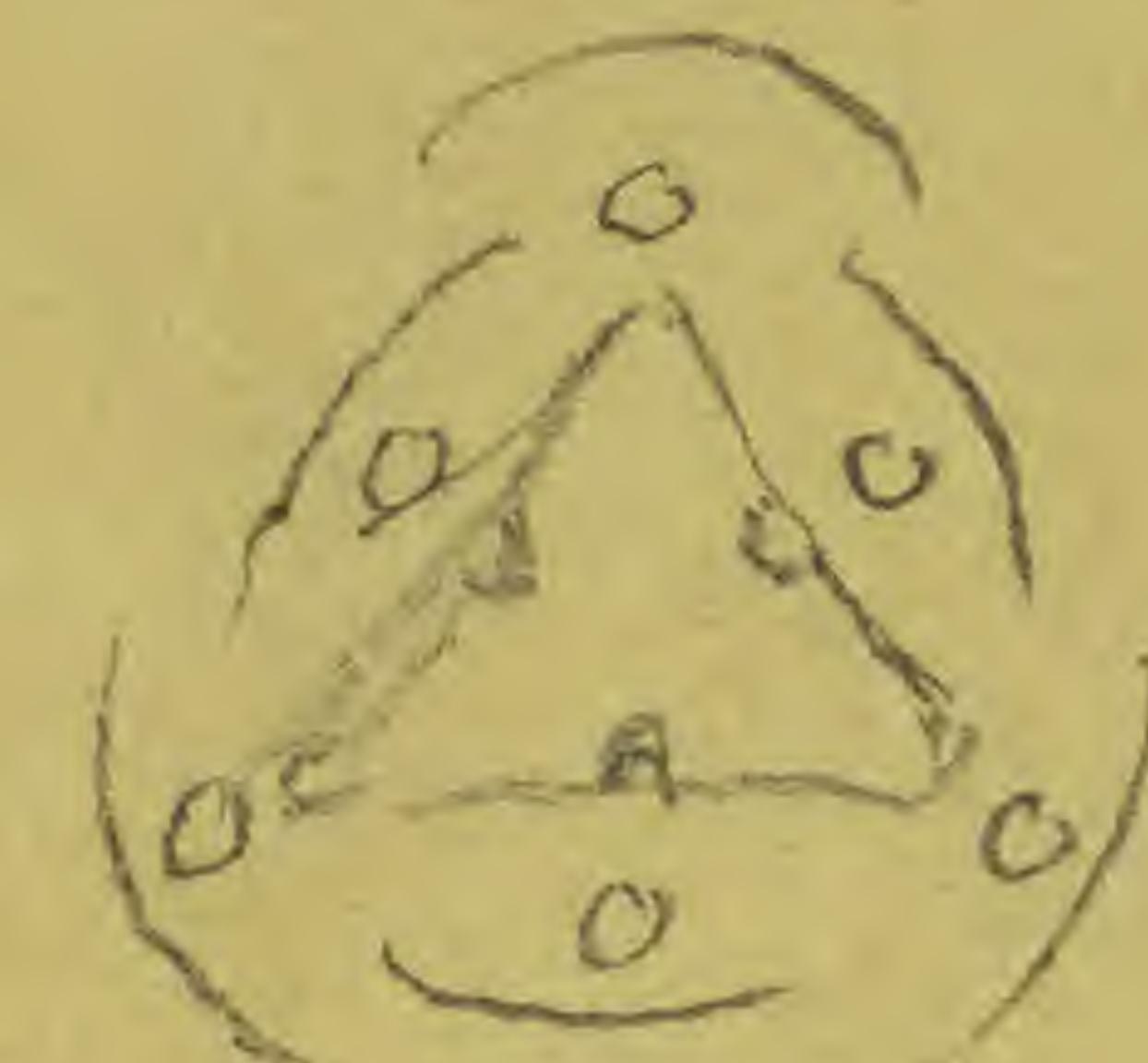
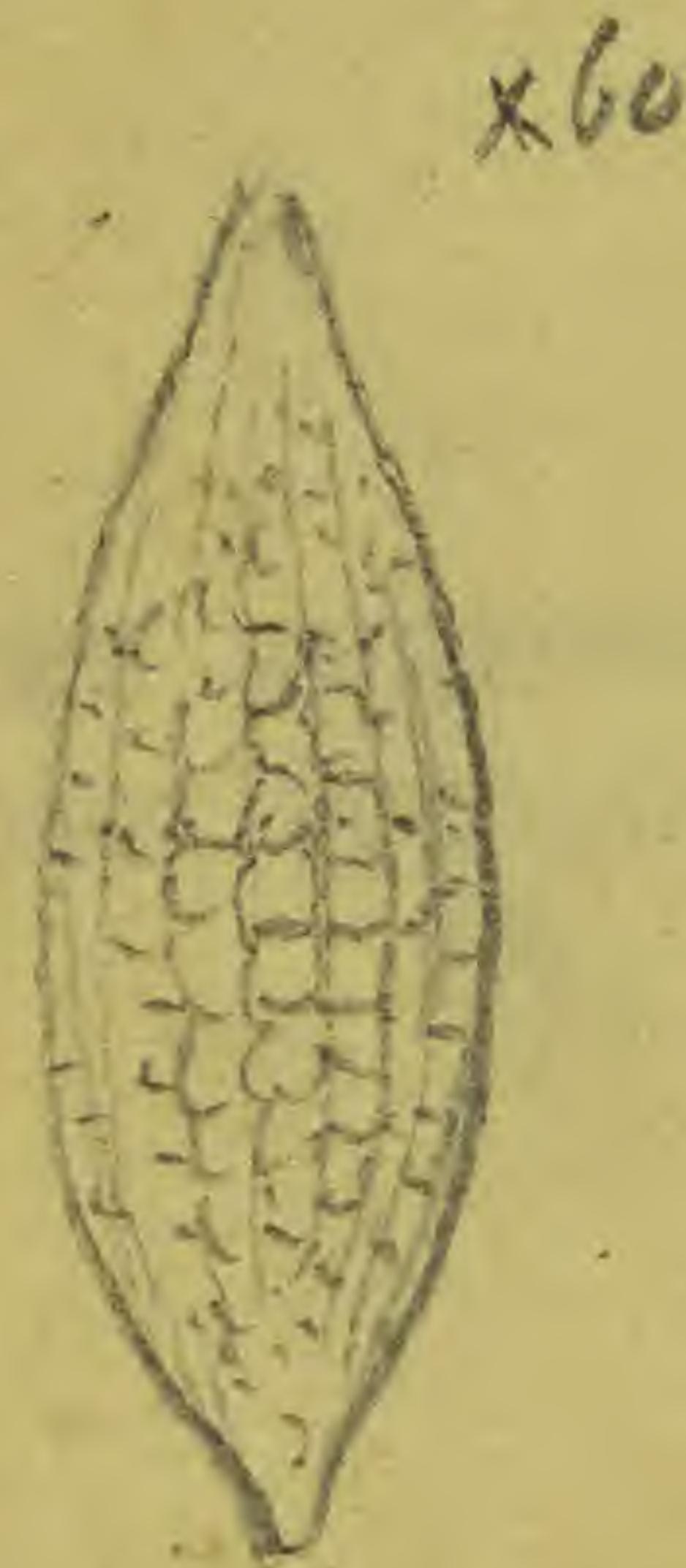
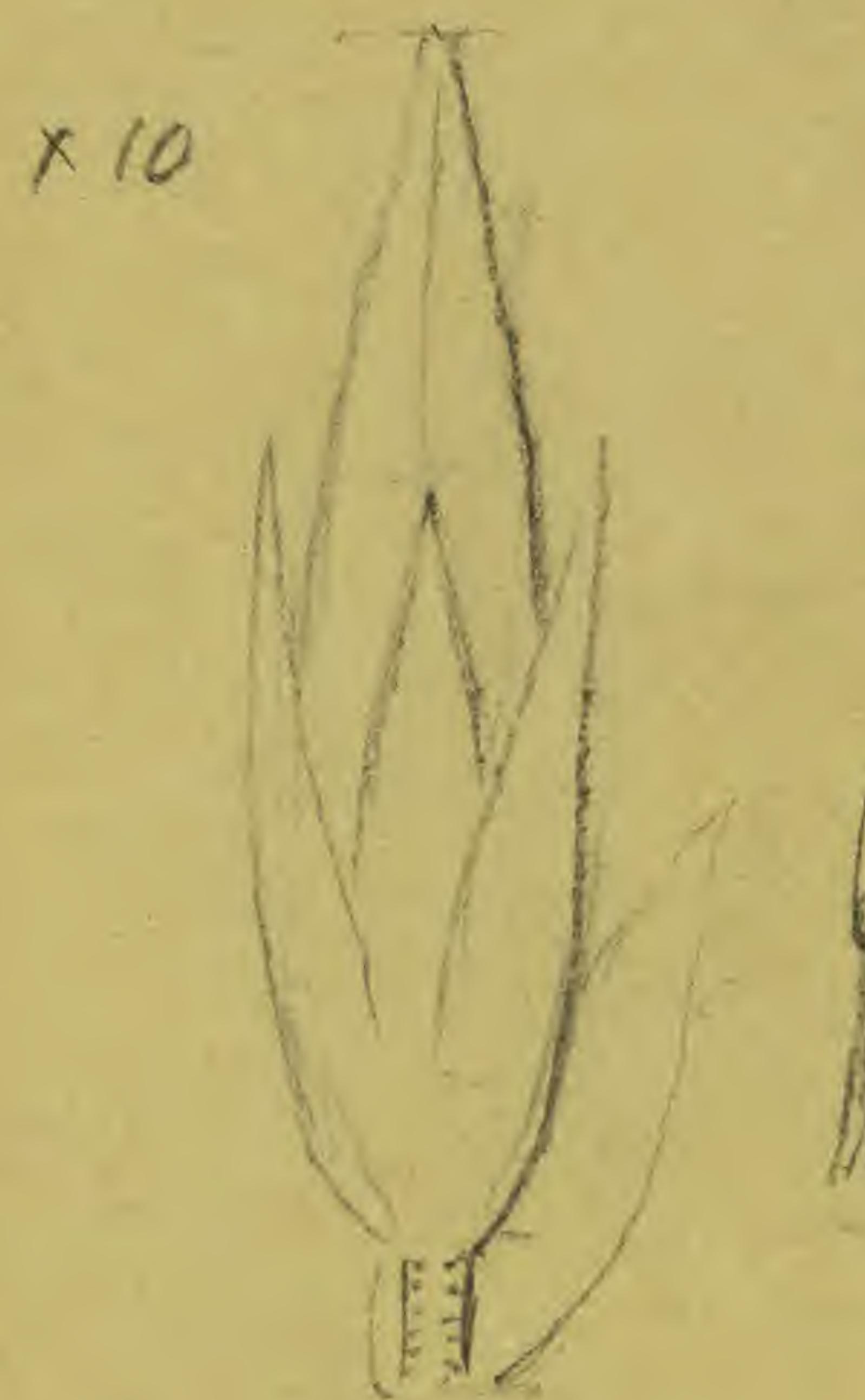


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Juniperus rugulosa n.s.p.

Jan 13 1881

San Bernardino Cal Nov 1880



capituli 3-5-8 flor
bracteis hyalinis fultis
sepala linear-leucodacti
acutate, subaequalis, extre
mum convexus, abso
3 nervia
staminis multo brwon
anthers linear filants brwon
stylus?
capsula leucodacti, ante 3-ang
sepala linear exedente
placantis parietalibus
semina fastigata ap
utrumque apiculata, non
candata, rotundata.



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HENRY T. BROWNING,

APOTHECARY.

No. 2600 Faedde Ave., S. W. Cor. Jefferson Ave.,
ST. LOUIS, MO.

No.

Date,

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GEO. ENGELMANN & CO.



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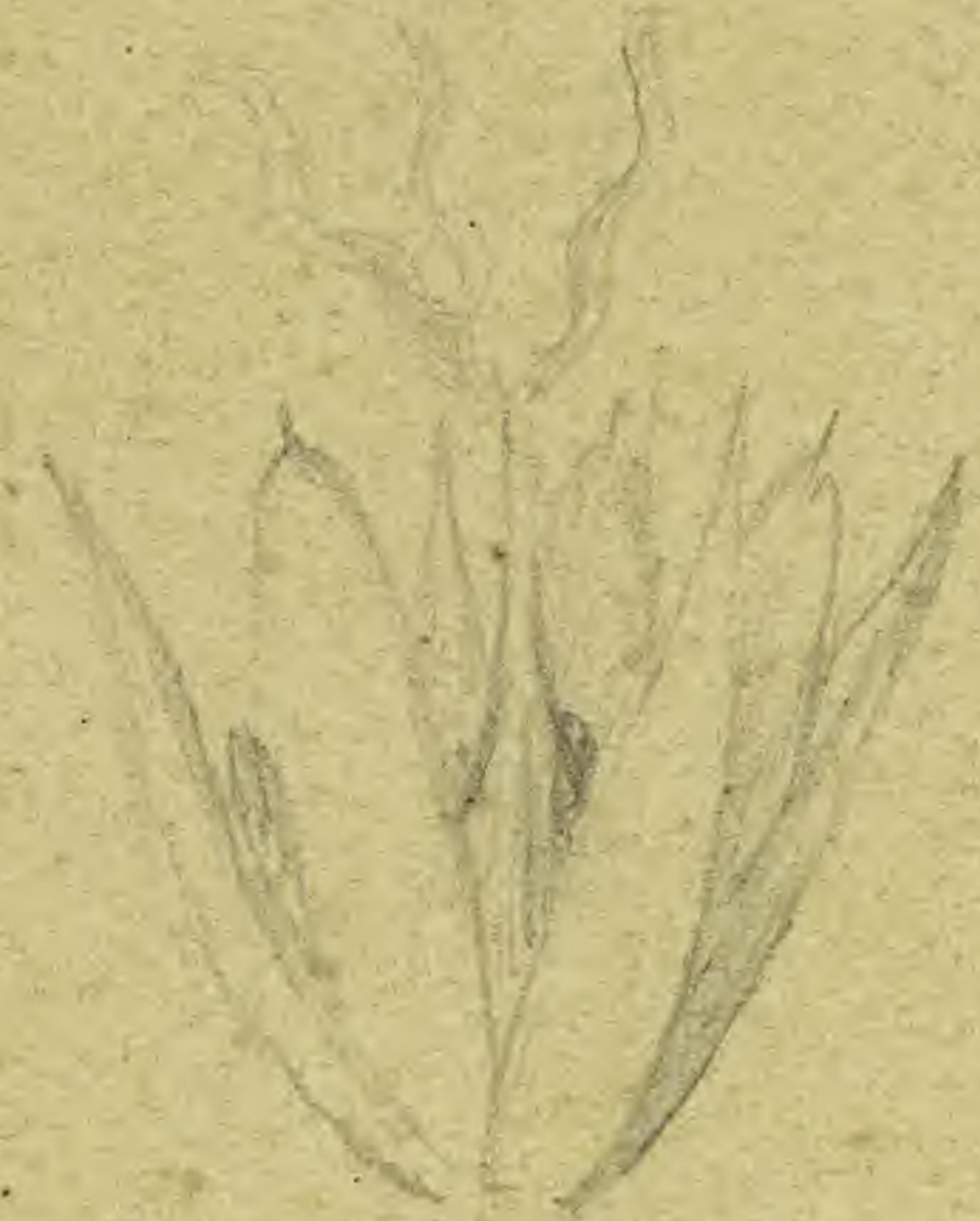
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Geo. Engelmann, M. D.,

No. 3003 Locust Street,

Fimbristylis rugulosus Eng. Oct 5 1881
San Bernardino July 30 1881
W G Wright

10



0.038 mm
diam



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cm

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GARDEN

H. W. BARKHOEFFER & CO.,
DRUGGISTS & PHARMACISTS,
No. 2934 Olive Street, S. E. Corner Garrison Avenue,
ST. LOUIS, MO.

2068

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN HERBARIUM



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Imnous aseptus n.sp.

Oct 6 17 1892

Bear Valley, San Bernardino Mts., Calif., Aug 1892

over.

$\times 10$



stem nearly
terete, smoothish
scarcely furrowed
hollow

$\times 10$



set of leaf
hollow
only few traces
of dissepiments
or diaphragms

$\times 10$



$\times 10$



$\times 60$



$\times 10$



8 or 9 ribs

capitul



over



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cm

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R. C. HARRISON,
George ENGELMANN PAPERS

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508 Leffingwell & Pothecary
Fruggist &
P

Linaria aseptas n. sp.
radice fibrosa, Caule basi stolonifere, debili-
torete fistulosa, pedali vel ultra; foliis ^{caulis} per-
aequangulis, debilibus, (basi lata auriculatis), ^{compositi}
fistulosis, septis perae carentibus (a lata
ramulis subsimplici capitulis 3-5 floribus
separatis) lata membranaceo marginata
exterioribus brownibus
staminibus 6 anthers plantae multo longioribus
ovaria aconitato in stylis elongatis abeunt
capsula perigonis capitulo s. subbrownore
semibus angustis utrigonariae rotulatae.
Numerable in the south on account of
the almost entire absence of *Diphorus* in the
fistulose leaves, whence the name



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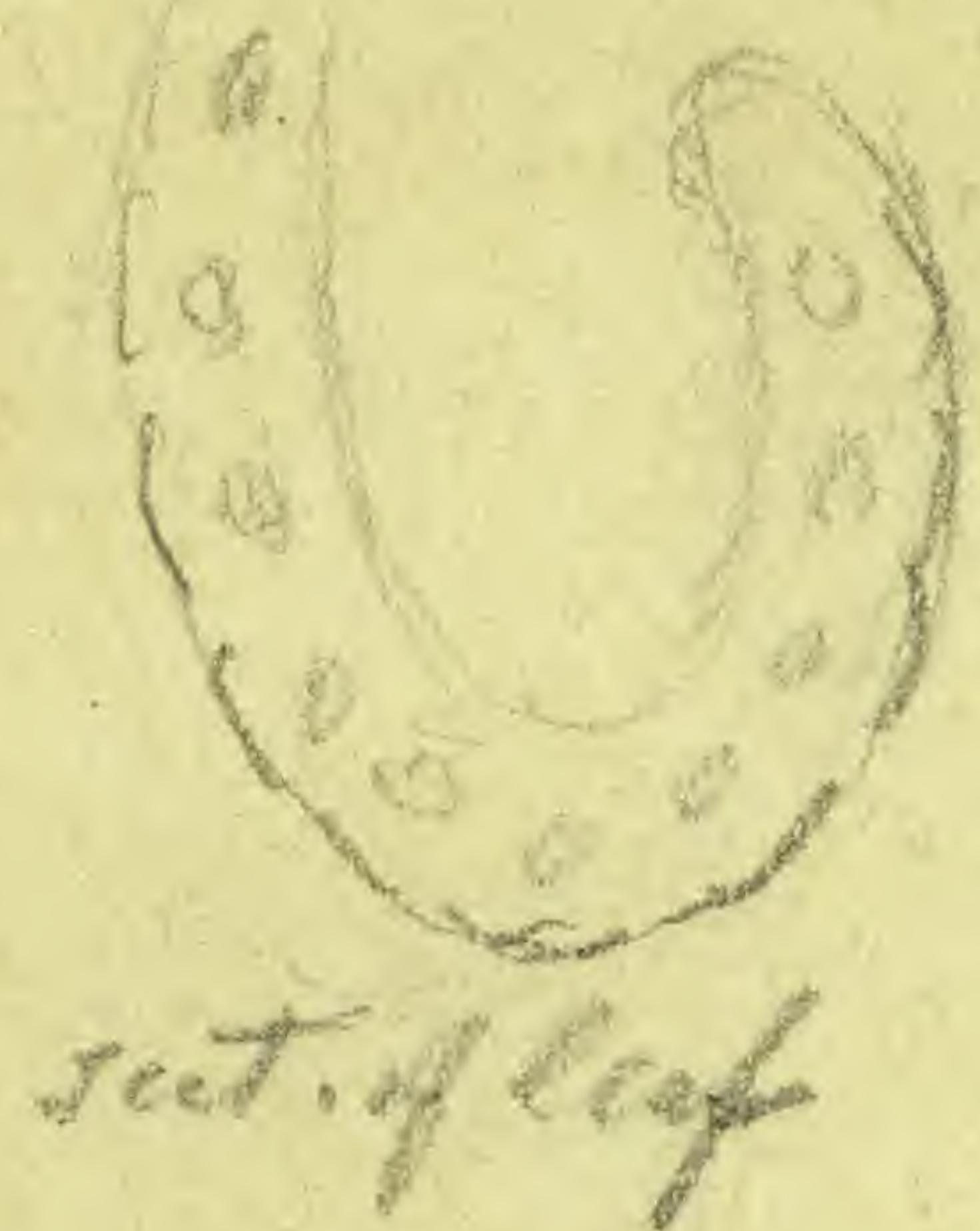
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Forrowia canelostylis n. sp.

Nov 4 1881

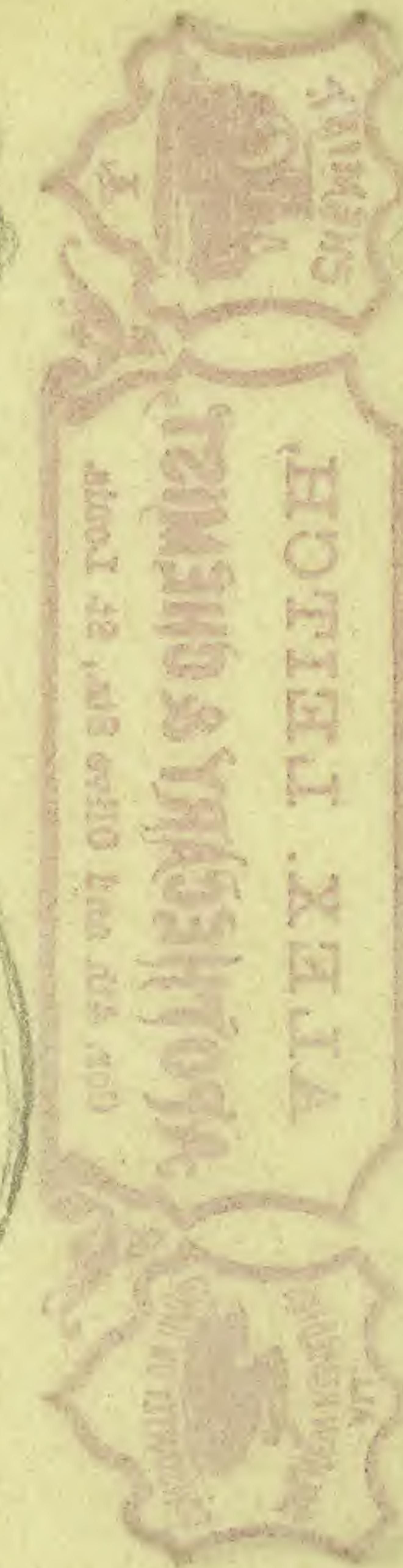
Forrow



x 10

6 stems
another red
(color - magenta)

x 10



x 10



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Juniperus deppeana flava
var. of *Belliana*

Feb 2 1882

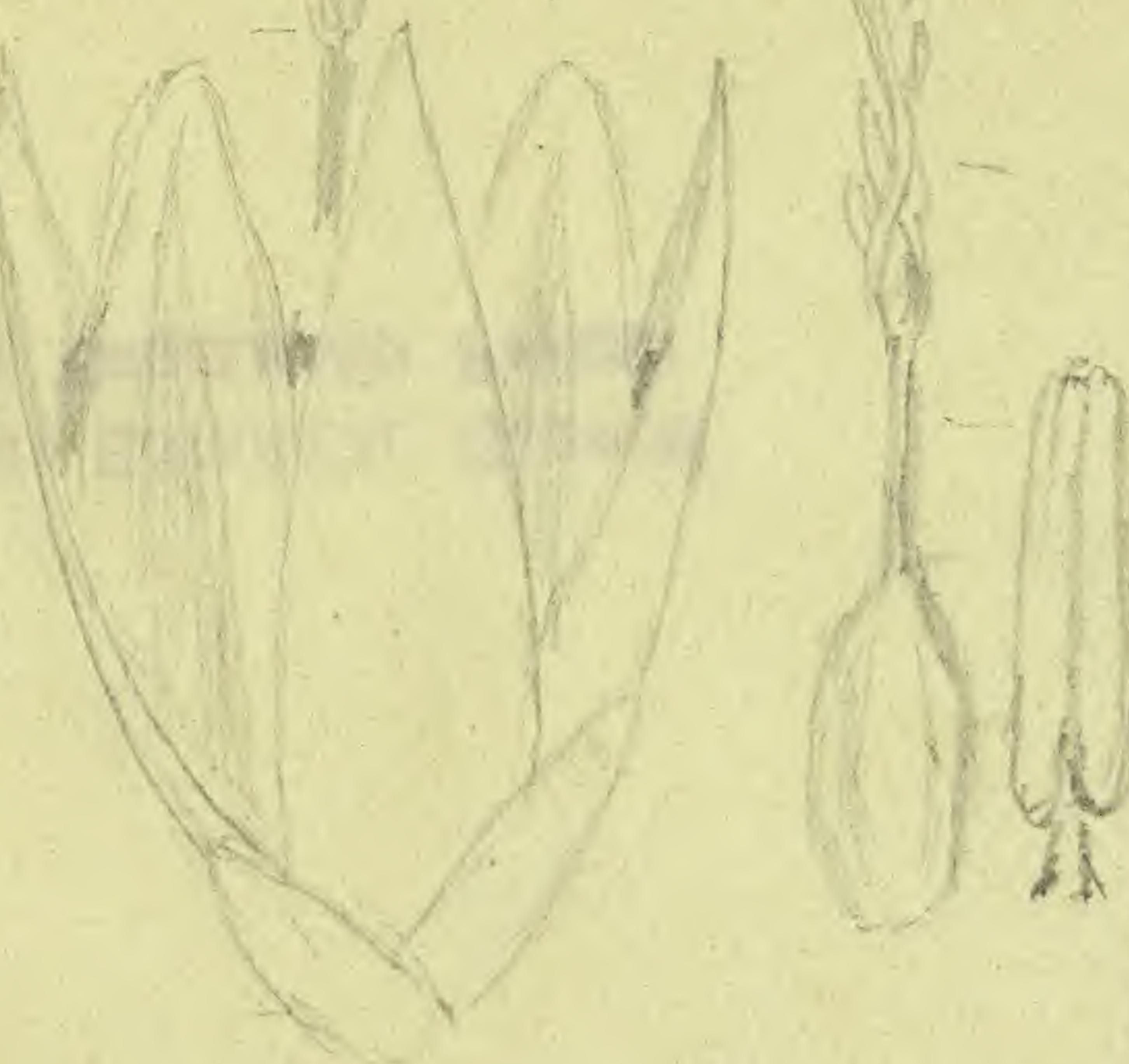
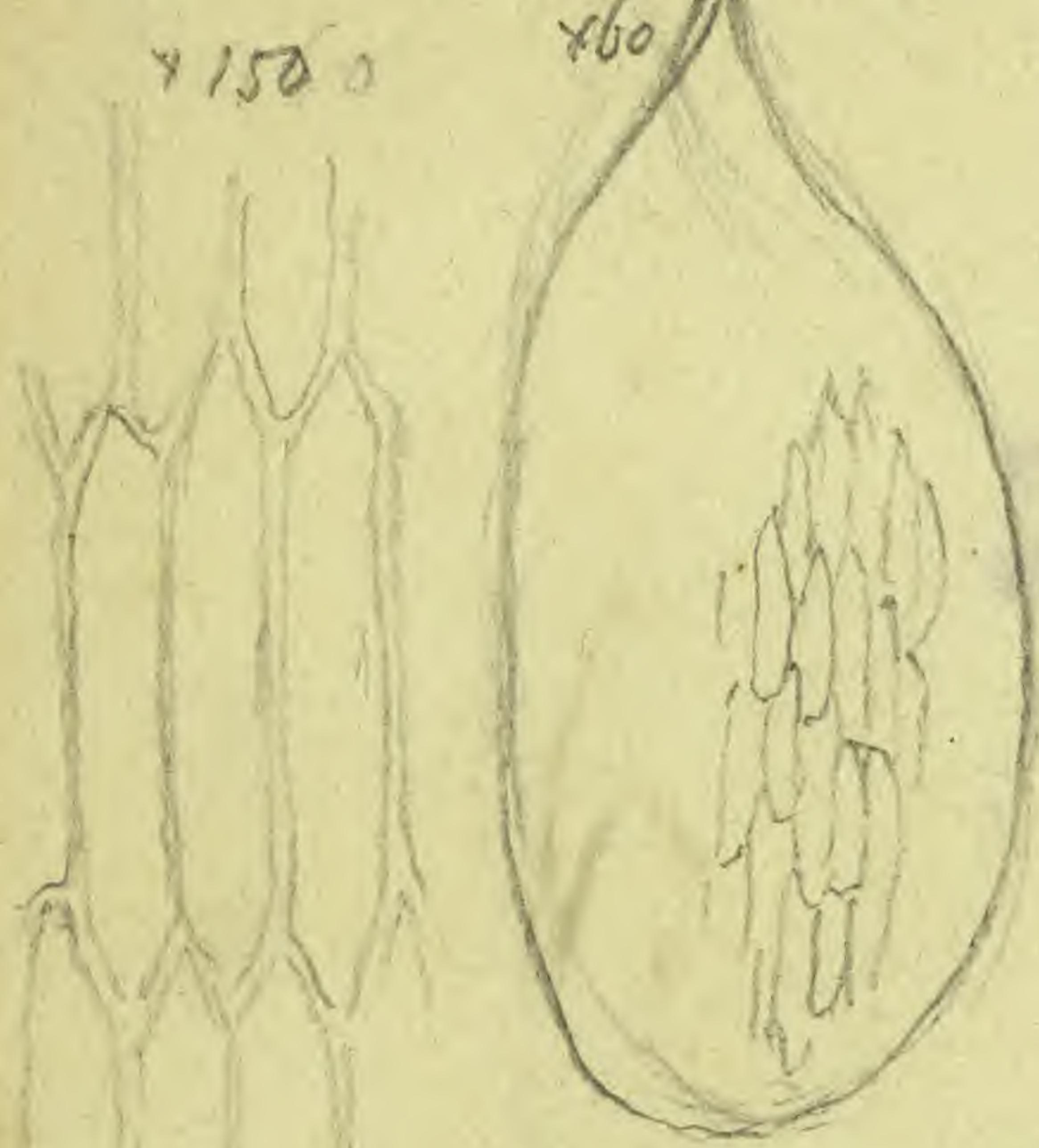
Santa Cruz Mtns, Arizona

$\times 10$

cat. no. 1221

$\times 150$

$\times 60$



near J. Bellows

fl. green, capsule (at least in this sp.)
green, much smaller than sepals, few seeds
(about 4 or 6 seeds — but numerous ovules)



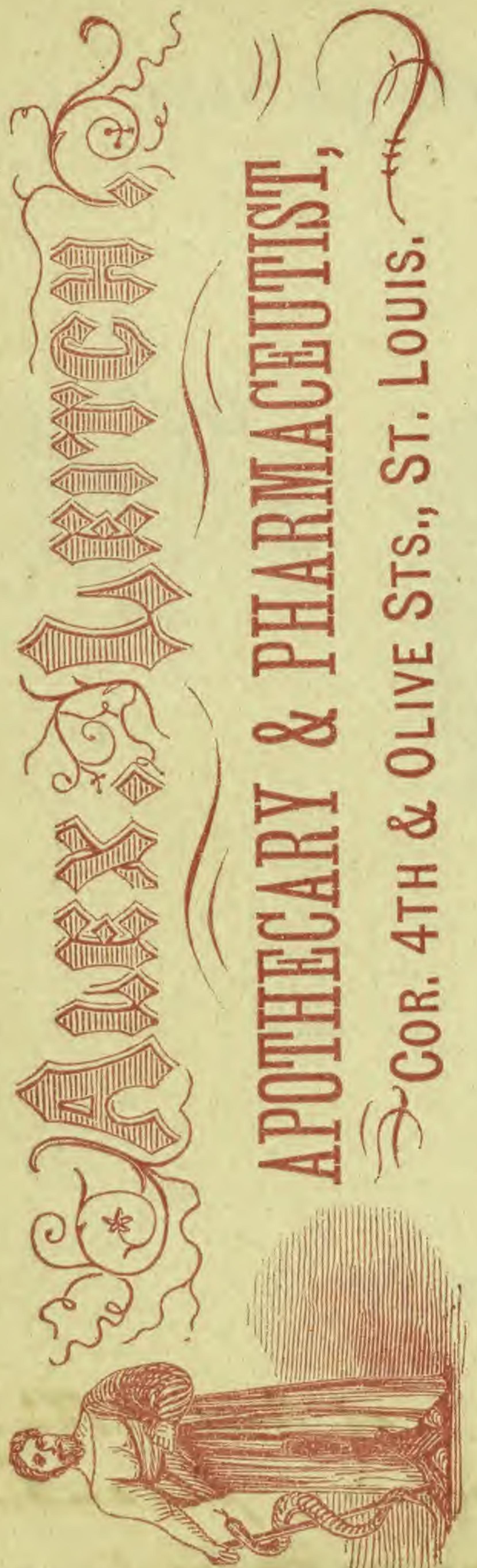
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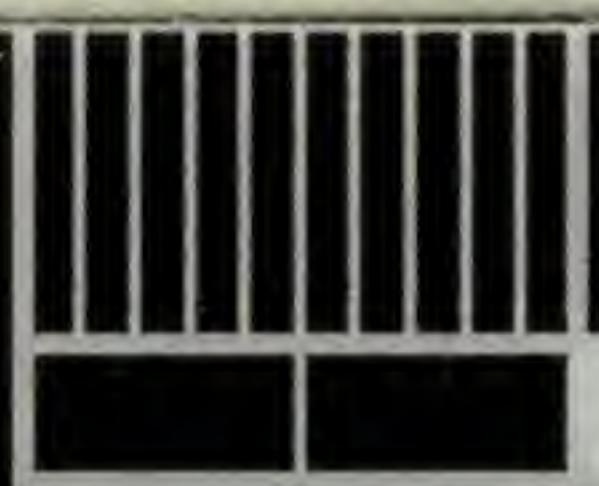
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January 20th 1892

how's the weather

$\times 10^3$

West Sand, Coos Bay, Oregon

1880. 1881

3 Single No 3

410

also G. E. 1890

working water
of leaf

x60

410

~~virginianus~~ ~~virginicus~~
~~caeruleo-olivaceus~~

* 150
reducible
group

9.0 180

70

9 Augt.

Corsebae

most cases



0 1 2 3 4 5 6 7 8 9 10

cm



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8907



APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

= *I. xiphophorus* & *moronthus* Taylor
I. polyocophalus a. J. New Coast Drift
Rock Harbor area, ground plaster
perfusion ~~and others~~

Lyde June 1882

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MISSOURI BOTANICAL GARDEN PAPERS
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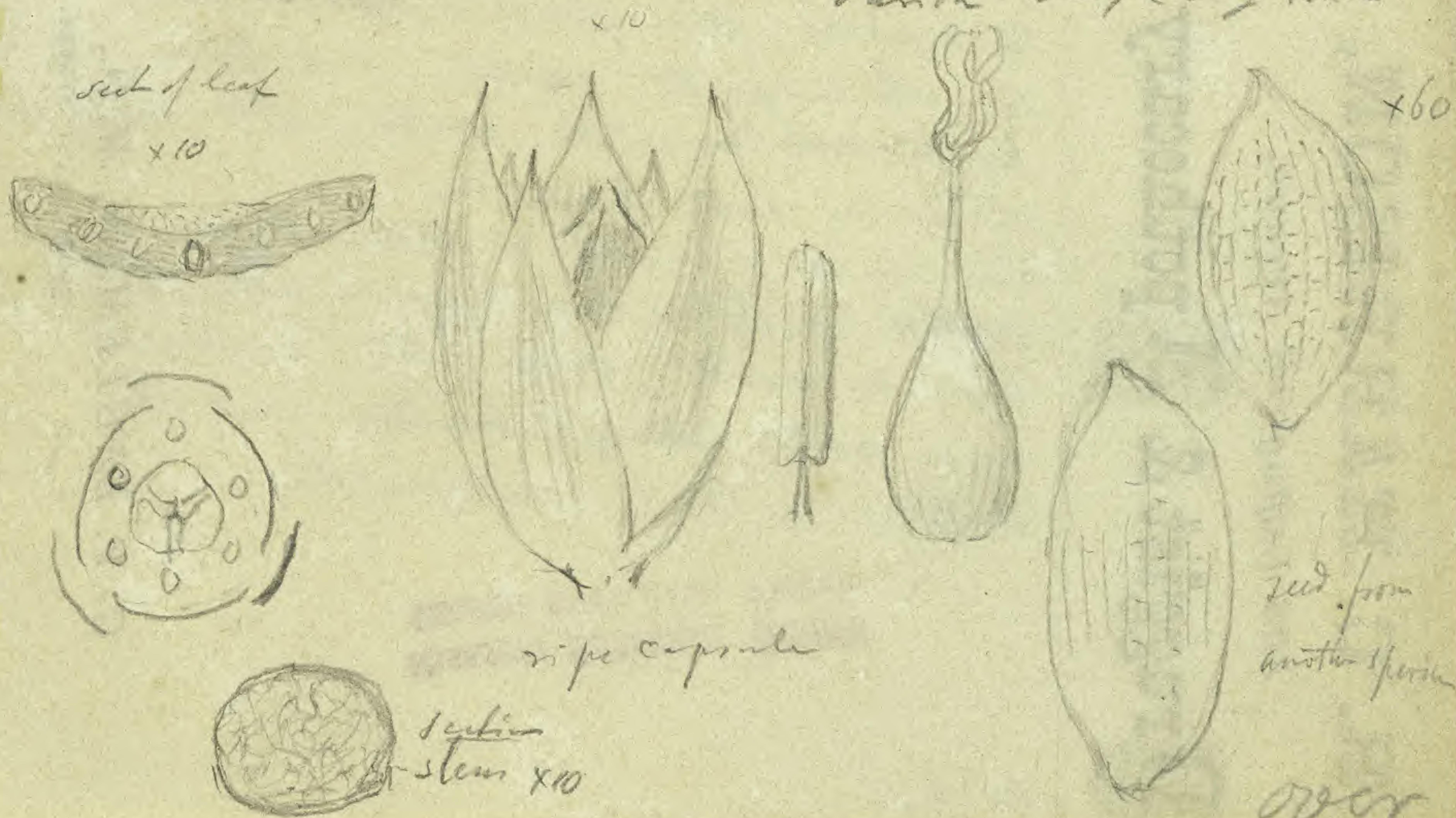
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1439 B *Inuenus Pongostylis* sp. Oct 17 1882
Cerro north side San and other Canons in San Bernardino Mts
Panam 1882



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R. C. HARRISON,

508 Leffingwell Avenue,

Druggist & Apothecary



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Ionurus Parishii n. sp. levigata
caespitosus, caule leviter compresso & blondo, raro
1½-2 pedali; foliis planis & ^{usculis} ~~labeculatis~~ ;
panicle composta, capillis 5-8-floris
sepulis ovalibus solitis, acutis, alto-marginalis
exterioribus multo brevioribus
staminibus 6 planis to multotis longioribus
ovatis in stylis aequi-longis attenueatis
capsula ovata, cuspidata involuta
sem ovatis utrinque breviter cuspido
costatis & leviter reticulata

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3003 LOCUST STREET.

G. F. ENGLEMAN, M.D.,

Invent. No. 12 W. Parks Jr.

Nov 9 1882

J. asepto prox. min.

Tuloom Valley

Wash. Terr.

K

Sept 1882



x 10

set of leaf
thin walls, dissep-
iments weak

x 150

x 60



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cm

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Flora & Fauna

DEUTSCHE

SOHN & SÖHNE
Verlag für
Botanik und
Zoologie

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stijonate repente, cana testa foliosa,
foliis pustulosis testibus, parvotibus
femoribus, Daphne australis semibus
pumis paniculatis, capitulis 5-8 fl.
bracteis a basi onto subtriangularibus
Korby, Brownii, sepulis lomentosis
acuminatis, acutis, longioribus
stems 6 antice late crenatis foliatis
millioribus longioribus
ovario acuminato - stylis ex acutioribus
attenuat. involucris
semibus, acutis, utr. 2-3 acuminatis
reticulatis

MISSOURI BOTANICAL GARDEN
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very many
longer
seed with few ribs

flowers with larger, flat
septae distinct - petals shorter
flowers of phaeophytes



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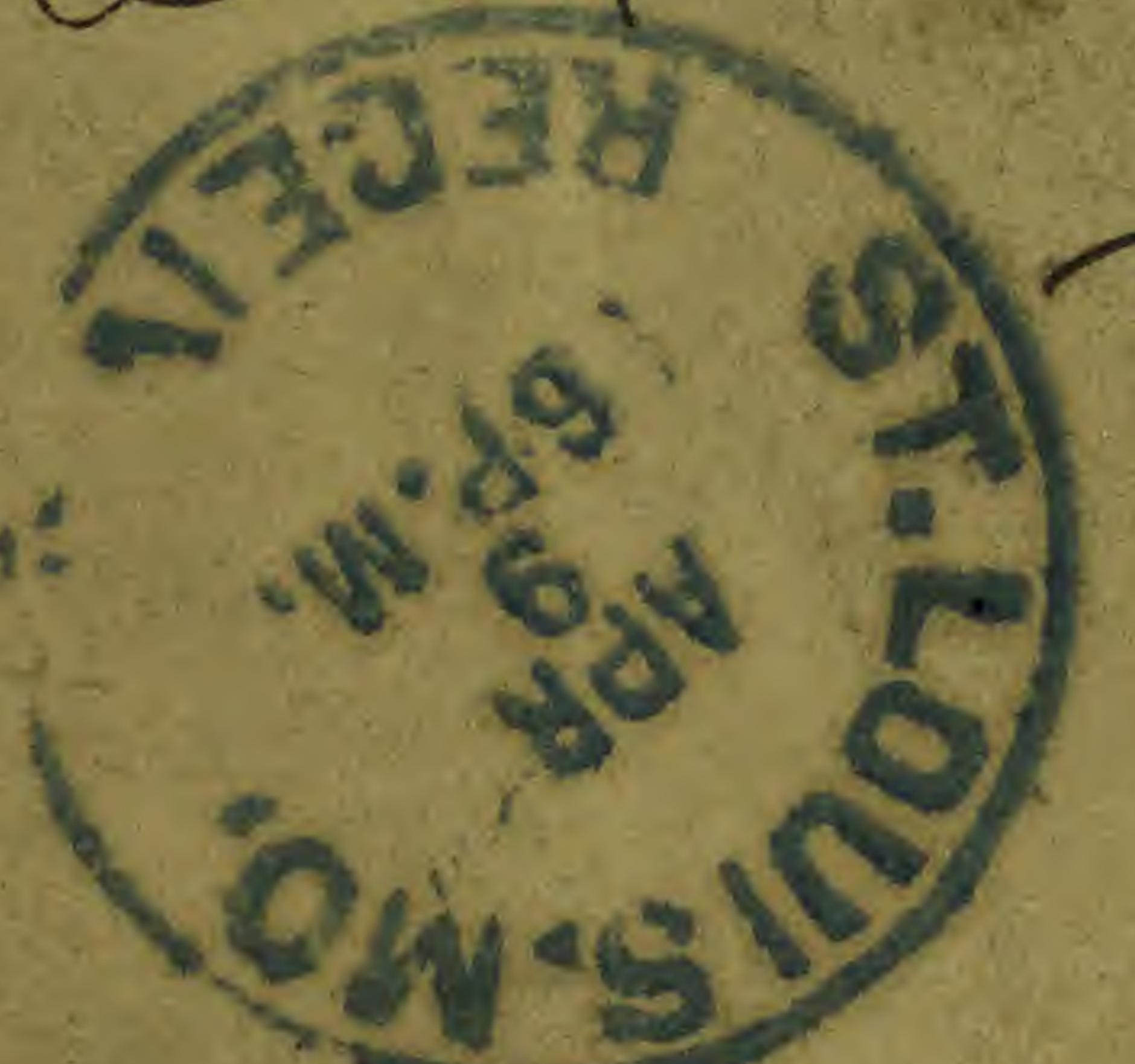
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WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER



Dr. Mr. C. Philmar
3003 Locust St
St. Louis
Missouri



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In Flora Oct. 21, 1857
Orchids are shown as a paper
& a plate on the
Querschnitt & Zwischen - cap-
sule.

I am in Ipmirea,

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A. Gray



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508 Your punctual attendance is requested at such
meetings, and especially at the next one, which will be
held next Monday, ~~Mo. 95~~ ^{Mo. 95} at 7-2 P. M., at
the Polytechnic Hall, Chestnut St., bet 7th and 8th.

C. V. Riley

C. V. RILEY,

Recording Secretary.



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crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.



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ering.

Dimensions.—Length, 0.20 of an inch ; width, 0.18.

The *Elæacrinus Kirkwoodensis* is nearly allied to *E. (Pentremites) melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

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BOTANICAL GARDEN

13-14

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VI. The appearance of negative electricity was connected in

| 1861. No. times. | 1862. No. times. | |
|---------------------|---------------------|---|
| 30 | 32 | with thunderstorms. |
| 23 | 28 | with rains without thunder and lightning. |
| 20 | 4 | with dry storms (without rain and without thunder and lightning). |
| 4 | 3 | with snow. |
| 1 | 0 | with fog. |
| 78 | 67 | |

VII. *Relation of Rain and Snow to Electricity.*

Rain without thunderstorm was accompanied

| | By Positive Electricity. | | By Negative Electricity. | | By no Electricity. | |
|----------------|--------------------------|----------|--------------------------|----------|--------------------|----------|
| | In 1861. | In 1862. | In 1861. | In 1862. | In 1861. | In 1862. |
| January..... | 7 | 5 | 3 | 2 | | 2 |
| February | 2 | 1 | 4 | 1 | | |
| March | | 5 | 6 | 4 | | |
| April | 8 | 6 | 7 | 11 | | 1 |
| May | 10 | 7 | 1 | 1 | 3 | 1 |
| June | 7 | 1 | | | | 3 |



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interrupted descent and ascent took place from January to December, we find in 1862 some interruptions in the steps of that ladder. The electricity in February, 1862, is about four degrees higher than that of January, April somewhat higher than March, and July is the lowest instead of September in 1861. These trifling irregularities may be accounted for by differences in temperature and relative humidity, and by a greater number of thunderstorms in 1862. January of 1862, for instance, was so unusually rainy, that its relative humidity too was unusually high, diminishing thus electricity. But the general features of distribution of electricity throughout the year are apparent in both years, and we may in that respect divide the twelve months of each year into two or three groups. Computing the months which give the highest electricity and those which give the lowest in each year, we find that in both years the months of January, February, March, April, November and December exhibit the highest, and the months of May, June, July, August, September and October the lowest electricity. The first group gives

The aggregate monthly mean of 71.5 degrees of electricity in 1861
 and 74.6 " " " 1862
 While the second group gives 29.0 " " " 1861
 and 25.7 " " " 1862

The second group prevailed therefore in 1861, and the 1st

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Rostkovia Desv. Journ. Bot. 1. 327

char. emend. Hook. fil. Fl. Austral. 1. 81

Rostkovia & Mississippermum Desv. fil. Hook

Ros majorioides solitariae

Perianthium glaucoaceum hexaphyllum foliolis linearis-
sabulatis, 3 extensibus paulo majoribus dorsi
Staminis 6 inno perianthii exsertis, foliolis oppositis
anthere apice angustisulcatis

Bracteum oblongum elongatum vel ovatum trigonum
uniloculare. Ovula planae brevirostris

plantes 3 paritatis basadix aerei

Style, veloides elongatus apice inornatus

stigmata 3 exserta aerei linearis-sabulata
inter glandulosa dorsi profundi runcinata

Capolla ex. bivalvis trivalvis valvis media
inter carinatis, carinis & septis retractis
formatis.

Scamia planina horizontalis vel ascendens

testa varia. Pachys ramicus subquadratus
in basi albaeae carnosus rufus.

Herbae australis, Culm. basi vegetati

folia solitariae secum planinae elongatae

teretis. Scapi graciles apice caerulei

foliis brevioribus

Character ex Desvaux pacioi. mutatis.

—

p. 83. The very peculiar habit, the singularly
large and solitary flowers... together
with the elongated style and disproportionate
size of the stigmata... appear of
sufficient importance to warrant the
retaining these under a separate generic
name.



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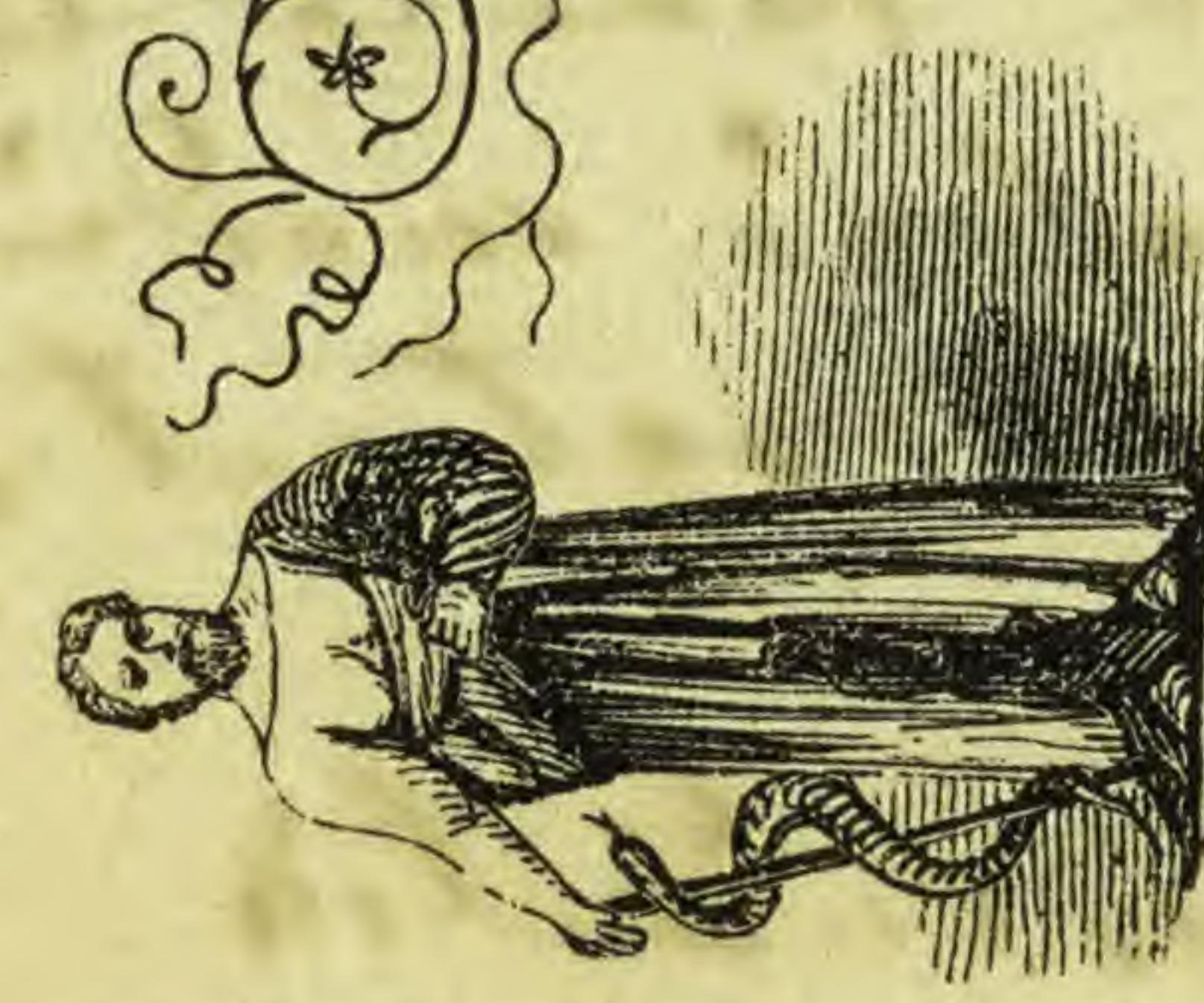


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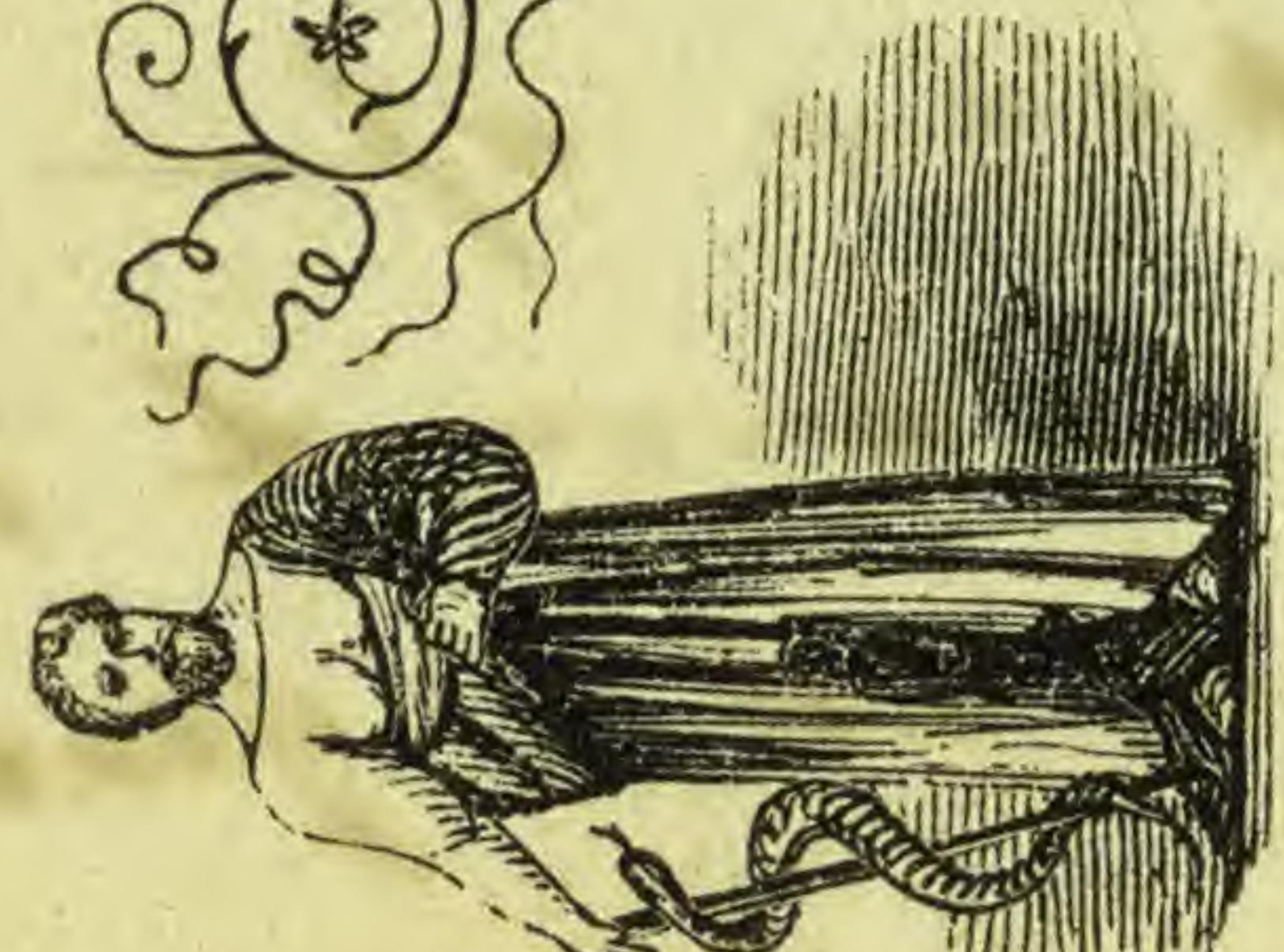
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APOTHECARY & PHARMACEUTIST,
COR. 4TH & OLIVE STS., ST. LOUIS.



APOTHECARY & PHARMACEUTIST,
COR. 4TH & OLIVE STS., ST. LOUIS.



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Amelanchier alnifolia Forst L.

Chili No. 10.

x10 sed/leaf

Kunth 3,260 Zepala edmoniae
13-16 Cm. longa
here only 8-9 Cm

folia sublentis
farcta

10



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M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS,

ST. LOUIS.

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